

In the Claims:

Amend claims 41-78. Add claim 79.

1-40. (Canceled).

41. (Currently amended). Membrane body (1), comprising at least a first panel (10) and a second panel (11) connected together in an adhesive manner by respective facing faces (12, 13), and a plurality of tie rods (16) arranged stably between the panels (10, 11) according to a set pattern; each said tie rod (16) having respective end portions (17, 18); said body further comprising insulation means (15) arranged between the panels and associated with each said tie rod (16) to leave said tie rod (16) longitudinally free between said panels (10, 11); said tie rod (16) being suitable for resisting a dual tensile membrane stress acting on each of said pair of panels (10, 11), and keeping said panels (10, 11) substantially free of tension during use; said second panel (11) covering said face (12) of said first panel (10) in such a way that said second panel (11) adheres integrally to said first panel (10), and said insulation means (15) being formed of a same material as said tie rod (16).

42. (Currently amended). Membrane body (1) as claimed in claim 41, ~~characterized in that~~ wherein said insulation means (15) ~~comprise~~ comprises

- a plurality of flexible sheaths (15) arranged between said respective panels (10, 11) along force lines (F), each sheath housing a corresponding tie rod (16) in a longitudinally free manner.
43. (Currently amended): Body according to claim 42, ~~characterized in that~~ wherein said tie rod (16) comprises a plurality of fibres (24) free of at least a set material, that are arranged inside one said sheath (15) in such a way as to be longitudinally freely slideable.
44. (Currently amended). Body according to claim 43, ~~characterized in that~~ wherein said sheath (15) has an annular section.
45. (Currently amended). Membrane body (1) Body according to claim 43, comprising at least a first panel (10) and a second panel (11) connected together in an adhesive manner by respective facing faces (12, 13), and a plurality of tie rods (16) arranged stably between the panels (10, 11) according to set pattern; each said tie rod (16) having respective and portions (17, 18); said body further comprising insulation means (15) arranged between the panels and associated with each said tie rod (16) to leave said tie rod (16) longitudinally free between said panels (10, 11); said tie rod (16) being suitable for resisting a dual tensile membrane stress acting on each of

said pair of panels (10, 11), and keeping said panels (10, 11) substantially free of tension during use; said second panel (11) covering said face (12) of said first panel (10) in such a way that said second panel (11) adheres integrally to said first panel (10) wherein said insulation means (15) comprises a plurality of flexible sheaths (15) arranged between said respective panels (10, 11) along force liens (F), each sheath housing a corresponding tie rod (16) in a longitudinally free manner, wherein said tie rod (16) comprises a plurality of fibres (24) free of a least a set material, that are arranged inside one said sheath (15) in such a way as to be longitudinally freely slideable, and wherein said sheath (15) has an annular section interrupted at a first panel (10) (11) of the two said panels (10, 11).

46. (Currently amended). Body according to claim 45, ~~characterized in that~~ wherein said sheath (15) is longitudinally delimited by two respective strips (23) that are distinct from one another; said first panel (10) (11) being suitable, between the two said strips (23), for completing said annular section of said sheath (15), to limit the masses in play and increase their flexibility.
47. (Currently amended). Body according to claim 45, ~~characterized in that~~ wherein said sheath (15) and the respective said tie rod

- (16) comprise fibres (24) with a homogenous composition.
48. (Currently amended). Body according to claim 45, ~~characterized in that~~
wherein said sheath (15) and the respective said tie rod (16) comprise fibres
(24) with a heterogeneous composition.
49. (Currently amended). Body according to claim 45, ~~characterized in that~~
wherein said tie rod (16) has fibres (24) with a homogenous composition.
50. (Currently amended). Body according to claim 45, ~~characterized in that~~
wherein said tie rod (16) has fibres (24) with a heterogeneous composition.
51. (Currently amended). Body according to claim 47 ~~characterized in that~~
wherein the fibres (24) of said sheath (15) and the fibres of the respective
said tie rod (16) have sections with a substantially identical value.
52. (Currently amended). Body according to claim 47, ~~characterized in that~~
wherein the sections of the fibres (24) of said sheath (15) and those of the
respective said tie rod (16) differ from one another by a set coefficient.
53. (Currently amended). Body according to claim 52, ~~characterized in that~~
wherein said coefficient falls within ~~the~~ a range 0.20-5,
54. (Currently amended). Body according to claim 52, ~~characterized in that~~

wherein said coefficient falls within ~~the~~ a range 0.5-2.

55. (Currently amended). Body according to claim 52, ~~characterized in that~~
wherein said coefficient falls within ~~the~~ a range 0.75-1.5.
56. (Currently amended). Body according to claim 41, ~~characterized in that~~
wherein said first panel (10) (11) has a set shape, said two panels (10, 11)
 being connected together ~~through~~ by adhesive covering material.
57. (Currently amended). Body according to claim 43, ~~characterized in that~~
wherein said free fibres (24) of each said tie rod (16) are organized in the
 form of a roving.
58. (Currently amended). Body according to claim 41, ~~characterized in that~~
wherein said first panel (10) (11) of said pair of panels (10, 11) has a set
 shape, said two panels (10, 11) being connected together by covering
 adhesive material (2) suitable to react in a thermoplastic manner.
59. (Currently amended) Body according to claim ~~45~~ 58, ~~characterized in that~~
wherein said sheath (15) has an annular section interrupted at a second (11)
 (10) panel of said pair of panels (10, 11); said second panel (11) (10) being a
 covering panel of said first panel (10) (11).
60. (Currently amended). Body according to claim 41, ~~characterized in that~~

wherein it comprises a plurality of pairs of panels (10, 11), each said pair of panels (10, 11) being delimited at the top and bottom by a first and by a second edge (6, 7).

61. (Currently amended). Body according to claim 43, ~~characterized in that~~ wherein said free fibres (24) are made from a material chosen from the following products Kevlar, Twaron, Dyneema, carbon, glass.
62. (Currently amended). Body according to claim 41, ~~characterized in that~~ wherein each said face (12), (13) has increased wettability through the application of a Corona treatment [[, or the like]].
63. (Currently amended). Sail(1), ~~characterized in that it comprises~~ comprising at least one membrane body (I) including at least a first panel (10) and a second panel (11) connected together in an adhesive manner by respective facing faces (12, 13) and a plurality of tie rods (16) arranged stably between the panels (10, 11) according to a set pattern; each said tie rod (16) having respective end portions (17, 18); said at least one membrane body further comprising insulation means (15) arranged between the panels and associated with each said tie rod (16) to leave said tie rod (16) longitudinally free between said panels (10, 11) said insulation means (15) being formed of

the same material as said tie rod (16); said tie rod (16) being suitable for resisting a dual tensile membrane stress acting on each of said pair of panels (10, 11), and keeping said panels (10, 11) substantially free of tension during use; said second panel (11) covering said face (12) of said first panel (10) in such a way that said second panel (11) adheres integrally to said first panel (10); at least one sailcloth (14), delimited by respective side edges (4, 5) converging in a peak (3), and by a base edge (7).

64. (Currently amended). Awning for civil engineering purposes, comprising ~~characterized in that it comprises~~ at least one membrane body (1) including at least a first panel (10) and a second panel (11) connected together in an adhesive manner by respective facing faces (12, 13) and a plurality of tie rods (16) arranged stably between the panels (10, 11) according to a set pattern; each said tie rod (16) having respective end portions (17, 18); said body further comprising insulation means (15) arranged between the panels and associated with each said tie rod (16) to leave said tie rod (16) longitudinally free between said panels (10, 11); said insulation means (15) being formed of a same material as said tie rod (16), said tie rod (16) being suitable for resisting a dual tensile membrane stress acting on each of said pair of panels (10, 11), and keeping said panels (10, 11) substantially free of

tension during use; said second panel (11) covering said face (12) of said first panel (10) in such a way that said second panel (11) adheres integrally to said first panel (10).

65. (Currently amended). Method ~~for~~ of construction of a membrane body (1) including at least a first panel (10) and a second panel (11) connected together in an adhesive manner by respective facing faces (12, 13) and a plurality of tie rods (16) arranged stably between the panels (10, 11) according to a set pattern; each said tie rod (16) having respective end portions (17, 18); said body further comprising insulation means (15) arranged between the panels and associated with each said tie rod (16) to leave said tie rod (16) longitudinally free between said panels (10, 11), said tie rod (16) being suitable for resisting a dual tensile membrane stress acting on each of said pair of panels (10, 11), and keeping said panels (10, 11) substantially free of tension during use; said second panel (11) covering said face (12) of said first panel (10) in such a way that said second panel (11) adheres integrally to said first panel (10), said method comprising a phase of assigning a shape to at least a first adhesive panel (10) (11) of laminated material provided with at least an adhesive face (12) (13); a phase of applying a plurality of flexible longitudinal bodies (15) onto said first

adhesive face (12) (13) according to a set pattern; a phase of protecting said flexible longitudinal bodies (15) with a second panel (11) (10); a phase of increasing the adhesive property of said first face (12) (13) of said first panel (10) (11) to fix in position said flexible longitudinal bodies (15) and said first and second panels (10) (11); wherein each said flexible longitudinal body (15) ~~is provided with~~ forms said insulation means (15) and one said tie rod (16) inside said insulation means (15), with a tie rod (16) comprising a plurality of fibres (24) of a set composition to leave said tie rod (16) free to slide longitudinally in relation to ~~its relative~~ said insulation means (15) and to said first panel and second panel (10, 11), and able to resist normal stress to free said two panels (10, 11) from membrane stress; said phase of protecting said flexible longitudinal bodies (15) comprising covering said first face (12) (13) of said first panel (10) with said second panel (11) (10) in such a way that said second panel adheres integrally to said first panel.

66. (Currently amended). Method as claimed in claim 65, ~~characterized in that~~ wherein said phase of applying a plurality of flexible longitudinal bodies (15) onto said first adhesive face (12) (13) comprises applying a plurality of rovings (25) of free fibres (24) to said first face (12) (13) according to a set pattern and a phase of subdividing the free fibres (24) of said roving (25)

into two distinct portions substantially coaxial to each other, to make a sheath (15) with a first portion of said free fibres (24) and a tie rod (16) with a second portion of said free fibres (24); said sheath (15) being suitable for isolating said tie rod (16) from said first and second panels (10, 11), in such a way as to leave said tie rod (16) free to slide longitudinally in relation to said first panels and second panels (10, 11) and to resist normal stress to free said two panels (10, 11) from membrane stress.

67. (Currently amended). Method according to claim 66, ~~characterized in that~~ wherein the phase of protecting said roving (25), is followed by a phase of stably connecting together said first and second panels (10, 11) and of making stable the positioning of said rovings of free fibres (24) between said two panels (10, 11) in an adhesive manner through the application of pressure.
68. (Currently amended). Method according to claim 67, ~~characterized in that~~ wherein said phase of stably connecting said first and second ~~panel~~ panels (10) (11) is performed ~~inside a vacuum bag~~ through the delivery of heat.
69. (Currently amended). Method ~~for~~ of construction of sails including at least one membrane body (1) including at least a first panel (10) and a second

panel (11) connected together in an adhesive manner by respective facing faces (12, 13) and a plurality of tie rods (16) arranged stably between the panels (10, 11) according to a set pattern; each said tie rod (16) having respective end portions (17, 18); said body further comprising insulation means (15) formed as sheaths and arranged between the panels and associated, respectively, with each said tie rod (16) to leave said tie rod (16) longitudinally free between said panels (10, 11); said tie rod (16) being suitable for resisting a dual tensile membrane stress acting on each of said pair of panels (10, 11), and keeping said panels (10, 11) substantially free of tension during use; said second panel (11) covering said face (12) of said first panel (10) in such a way that said second panel (11) adheres integrally to said first panel (10); at least one sailcloth (14), delimited by respective side edges (4, 5) converging in a peak (3), and by a base edge (7); the method comprising a phase of assigning a set shape to at least one first adhesive panel (10) (11) of laminated material and provided with a first adhesive face (12) (13); a phase of applying a plurality of rovings (25) of free fibres (24) to said first face (12) (13) according to a set pattern; a phase of protecting each said roving (25), by covering said first face (12) (13) of said first panel with a second panel in such a way that said second panel

adheres integrally to said first panel, and a phase of subdividing the free fibres (24) of said roving (25) into two distinct portions substantially coaxial to each other, to make a sheath (15) with a first portion of said free fibres (24) and a tie rod (16) with a second portion of said free fibres (24); said sheath (15) being suitable for isolating said tie rod (16) from said first and second panels (10, 11), in such a way as to leave said tie rod (16) free to slide longitudinally in relation to said first panels and second panels (10, 11) and to resist normal stress to free said two panels (10, 11) from membrane stress.

70. (Currently amended). Method according to claim 69, ~~characterized in that~~ wherein the phase of protecting said roving (25), is followed by a phase of stably connecting together said first and second panels (10, 11) and of making stable the positioning of said rovings of free fibres (24) between said two panels (~~11~~ 10, 11) in an adhesive manner through the application of pressure.
71. (Currently amended). Method according to claim 70, ~~characterized in that~~ wherein said phase of stably connecting said first and second panel (10) (11) is performed ~~inside a vacuum bag~~ through the delivery of heat.

72. (Currently amended). Method according to claim 65, ~~characterized in that~~
wherein said phase of increasing an adhesive property of said first face (12)
(13) is preceded by the phase of distributing an adhesive material (2) on said
first face (12) (13).
73. (Currently amended). Method according to claim 66, ~~characterized in that~~
wherein said phase of subdividing the free fibres (24) of said roving (25) into
two parts to make a sheath (15) with a first portion of said free fibres (24)
and a tie rod (16) with a second portion of said free fibres (24) is
implementable through the delivery of heat to the adhesive material (2).
74. (Currently amended). Method according to claim 66, ~~characterized in that~~
wherein said free fibres (24) are made from a material chosen from the
following products Kevlar, Twaron, Dyneema, carbon, glass.
75. (Currently amended). Method according to claim 72, ~~characterized in that~~
wherein said adhesive material (2) selectively comprises an acrylic or rubber
resin compound or a copolymer similar to PET.
76. (Currently amended). Method according to claim 75, ~~characterized in that~~
wherein said acrylic compound is in the form of a gel.
77. (Currently amended). Method according to claim 69, characterized in that

said phase of stably connecting said tie rods (16) to said first and second panels (10, 11) through respective end portions (17, 18) of said tie rods (16) is performed through delivery of heat.

78. (Currently amended). Method according to claim 69, ~~characterized in that~~ wherein said phase of stably connecting said tie rods (16) to said first and second panels (10, 11) through respective end portions (17, 18) of said tie rods (16) is performed cold.
79. (New). Method according to claim 41, wherein said insulation means (15) is formed of an external portion of a roving of said tie rod (16).